(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 18 August 2005 (18.08.2005)

PCT

(10) International Publication Number WO 2005/075750 A3

(51) International Patent Classification⁷:

E02D 27/34

Korean

(21) International Application Number:

PCT/KR2005/000333

- (22) International Filing Date: 4 February 2005 (04.02.2005)
- (26) Publication Language: English
- (30) Priority Data:

(25) Filing Language:

10-2004-0007692 5 February 2004 (05.02.2004) KR 10-2005-0009947 3 February 2005 (03.02.2005) KR

- (71) Applicant (for all designated States except US): CON-KEYNET CO., LTD. [KR/KR]; 9F, Korea Veterans Association Bldg., 7-13, Sinchoen-Dong, Songpa-Gu, Seoul 138-792 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KIM, Kwang-Man [KR/KR]; 22-1408, Jangmi Apt., 11, Sinchoen-Dong, Songpa-Gu, Seoul 138-240 (KR). YUN, Sang-Mun [KR/KR]; 101-905, Dongah-hangaram Apt., Pungnap-Dong, Songpa-Gu, Seoul 138-040 (KR).

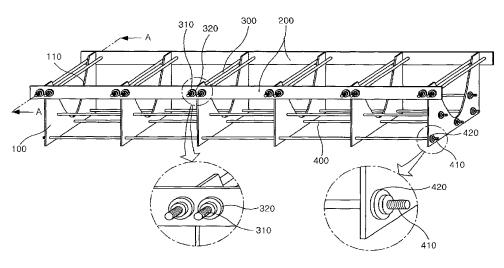
- (74) Agent: KWON, Hyuk-Sung; 12F, Seo-Jeon Bldg., 1330-9, Seocho-Dong, Seocho-Gu, Seoul 137-070 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: REINFORCEMENT OF FOUNDATION



(57) Abstract: The present invention relates to a reinforcement of foundation which comprises at least two base steel plates arranged to be upright with respect to the ground and shaped as a plate with a cutaway formed at a top portion thereof, a reinforced steel plate coupled to upper portions of both ends of the base steel plates, fastening steel rods placed to extend in a longitudinal direction of the base steel plate and coupled to the reinforced steel plate, and a connection steel rod bored sequentially through the base steel plates and coupled to the base steel plates. According to the present invention, huge concentrated load exerted on a foundation can be uniformly distributed, and thus, load transmitted from a pillar or column installed on the foundation can be stably supported. Further, the thickness of foundation can also be reduced as compared with the prior art, and thus, the excavation can be made shallow. Accordingly, the period and expense of construction can be reduced.



(88) Date of publication of the international search report:
6 October 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2005/000333

A. CLAS	. CLASSIFICATION OF SUBJECT MATTER						
IPC7 E02D 27/34							
According to International Patent Classification (IPC) or to both national classification and IPC							
	DS SEARCHED						
Minimum doci	umentation searched (classification system followed by	classification symbols)					
Documentation KR, JP : IPC		Patent Classification (IPC) or to both national classification and IPC THED Searched (classification system followed by classification symbols) Search (classification system followed by classification symbols) Searched (classification system followed by classification symbols) Search (classification system followed by classification symbols) Searched (classification symbols) Search terms used) Search term					
Electronic data	a base consulted during the intertnational search (name	of data base and, where practicable, search term	ns used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT							
Category*	Citation of document, with indication, where app	ropriate, of the relevant passages	Relevant to claim No.				
Α .	D1 : US 5564235 A (Michael Butler) 15 OCTOBER See the whole document	1996	1				
A	D2: US 5664377 A (Arthur Angelo) 9 SEPTEMBEF See the whole document	1					
A · · ·	D3 : JP H14-121747 A (SIN NIPPON SEITETS CORP.) 26 APRIL 2002 See the whole document		1				
A	D4: KR 20-341381 U (HILL ENGINEERING) 30 J. See the whole document	ANUARY 2004	1 .				
	· ·		·				
Further documents are listed in the continuation of Box C. See patent family annex.							
to be of pa "E" earlier app	rticular relevance plication or patent but published on or after the international	the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is					
	which may throw doubts on priority claim(s) or which is stablish the publication date of citation or other						
	ason (as specified) referring to an oral disclosure, use, exhibition or other						
	published prior to the international filing date but later riority date claimed	•					
Date of the actual completion of the international search		Date of mailing of the international search report					
10	5 JUNE 2005 (16.06.2005)	20 JUNE 2005 (20.06.2005)					
	iling address of the ISA/KR	Authorized officer	633333				
	Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea	CHOI, Byoung Suk	(利益(1)				

Telephone No. 82-42-481-5797

Facsimile No. 82-42-472-7140

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/KR2005/000333

	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
D1	US5564235A	15.10.1996	AU3418995A1	22.03.1996
			US05564235	15.10.1996
			US5830378A	03.11.1998
			US6076320A	20.06.2000
			US6120723A	19.09.2000
			US6205725BA	27.03.2001
	•		US6367764B1	09.04.2002
			US6367764BA	09.04.2002
			US6550213B1	22.04.2003
			US6550213BA	22.04.2003
			W09606985A1	07.03.1996
D2-0	04 NONE			